



Appl. No. 10/643,054  
Amdt. Dated March 21, 2005  
Reply to Office action of October 14, 2004

### **Amendment to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims**

Claim 1. (currently amended): A high voltage motor monitoring system comprising:  
a motor control enclosure having high voltage lines extending thereunto from a high voltage source and extending therefrom the power to a high voltage motor;  
a current transformer located on each high voltage line in said motor control enclosure for measuring the current in each high voltage line and producing a low voltage signal proportional to the measured current;  
an E-plug module located inside said motor control enclosure connected to each of said current transformers for processing said low signals there from for use by an externally located motor monitoring system; and  
a quick connect means mounted on an outside surface of said motor control enclosure having [connect] a connection to said E-plug module inside said enclosure and to a motor monitoring system outside said enclosure.

Claim 2. (original): A system as set forth in claim 1 wherein said current transformers are donut shaped and have said high voltage lines extending there through

Claim 3. (original): A system as set forth in claim 2 wherein said motor control enclosure has a door thereto and said quick connect means are mounted thereto.

Claim 4. (original): A system as set forth in claim 3 wherein said quick connect means includes an RJ-45 plug mounted to said door with a quick connect cable extending from said E-plug module thereto inside said enclosure and a quick

connect cable connected thereto outside said enclosure for connection to a motor signature monitoring system.

Claim 5. (original): A system as set forth in claim 4 wherein said motor signature monitoring device is an EMPATH type system.